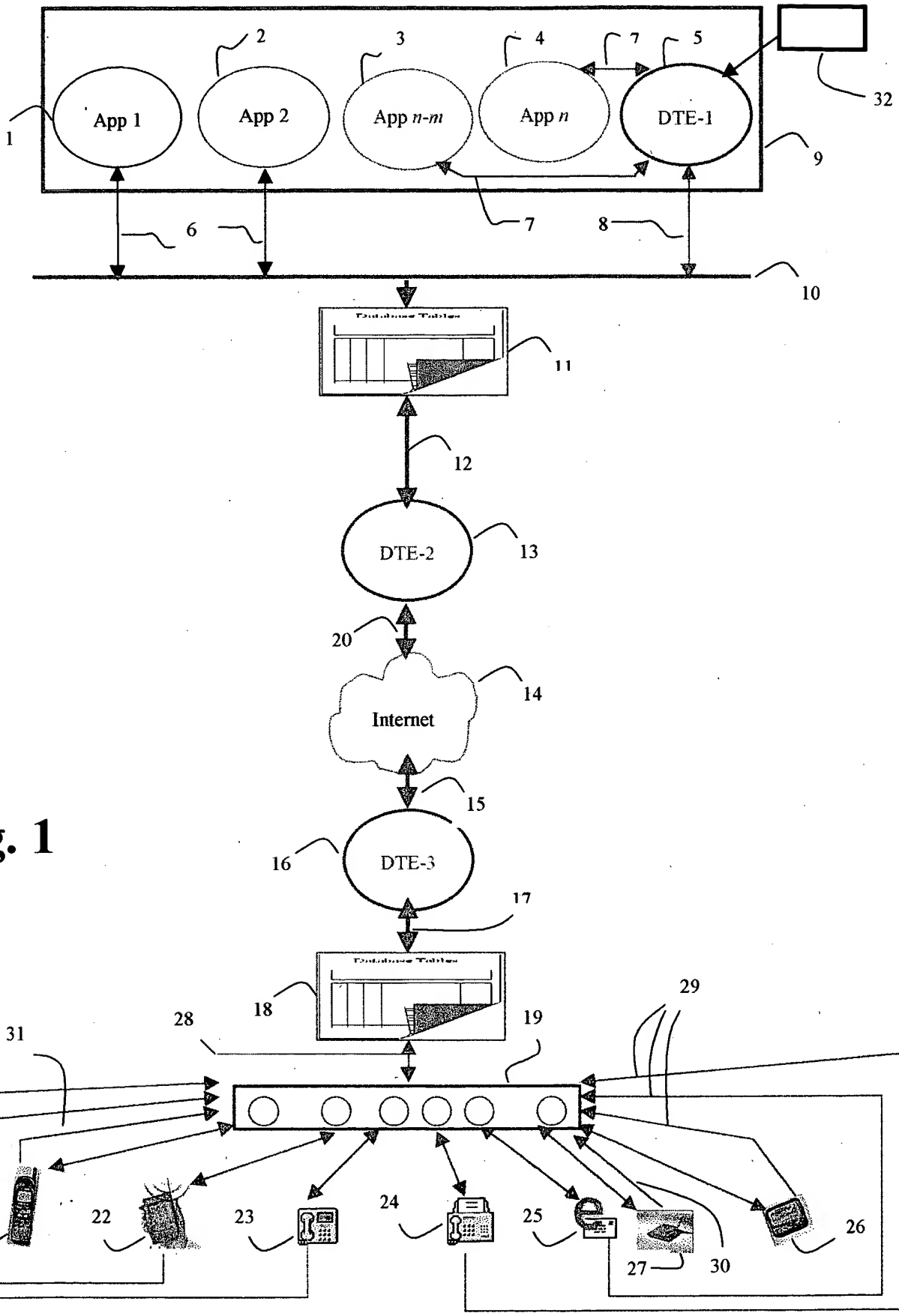
App 1
App 2
App n-m
App n
DTE-1
DTE-2
DTE-3
Internet
Database Tables
Database Tables
1
2
3
4
5
6
7
8
9
10
11
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Fig. 1

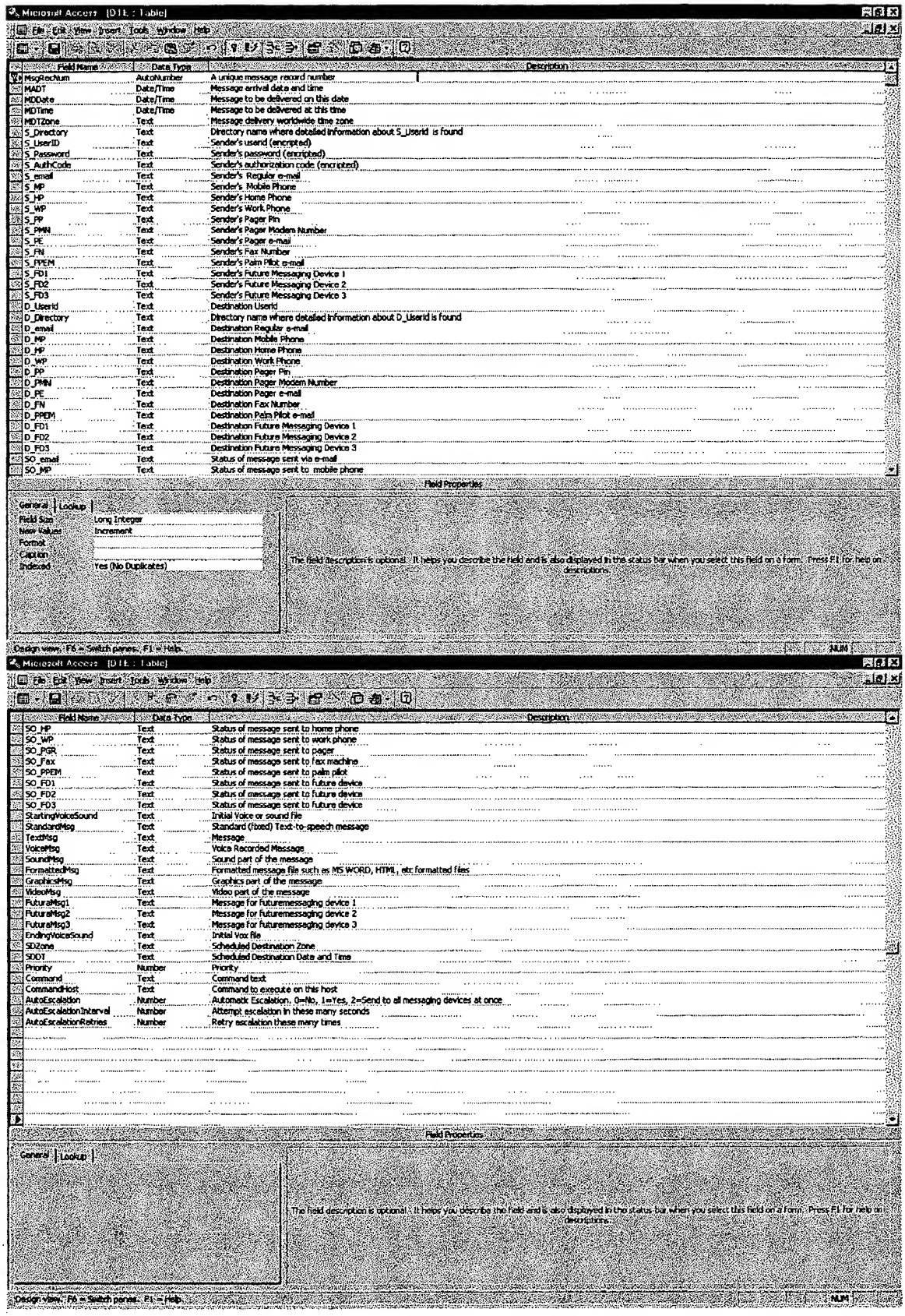

Microsoft Access [DTL : Table]
File Edit View Insert Tools Window Help
Field Name
Data Type
Description
MsgRecNum AutoNumber A unique message record number
MADT Date/Time Message arrival date and time
MDDate Date/Time Message to be delivered on this date
MDTime Date/Time Message to be delivered at this time
MDTZone Text Message delivery worldwide time zone
S_Directory Text Directory name where detailed information about S_Userid is found
S_UserID Text Sender's userid (encripted)
S_Password Text Sender's password (encripted)
S_AuthCode Text Sender's authorization code (encripted)
S_email Text Sender's Regular e-mail
S_MP Text Sender's Mobile Phone
S_HP Text Sender's Home Phone
S_WP Text Sender's Work Phone
S_PP Text Sender's Pager Pin
S_PMN Text Sender's Pager Modem Number
S_PE Text Sender's Pager e-mail
S_FN Text Sender's Fax Number
S_PPEM Text Sender's Palm Pilot e-mail
S_FD1 Text Sender's Future Messaging Device 1
S_FD2 Text Sender's Future Messaging Device 2
S_FD3 Text Sender's Future Messaging Device 3
D_Userid Text Destination Userid
D_Directory Text Directory name where detailed information about D_Userid is found
D_email Text Destination Regular e-mail
D_MP Text Destination Mobile Phone
D_HP Text Destination Home Phone
D_WP Text Destination Work Phone
D_PP Text Destination Pager Pin
D_PMN Text Destination Pager Modem Number
D_PE Text Destination Pager e-mail
D_FN Text Destination Fax Number
D_PPEM Text Destination Palm Pilot e-mail
D_FD1 Text Destination Future Messaging Device 1
D_FD2 Text Destination Future Messaging Device 2
D_FD3 Text Destination Future Messaging Device 3
SO_email Text Status of message sent via e-mail
SO_MP Text Status of message sent to mobile phone
Field Properties
General Lookup
Field Size Long Integer
New Values Increment
Format
Caption
Indexed Yes (No Duplicates)
The field description is optional. It helps you describe the field and is also displayed in the status bar when you select this field on a form. Press F1 for help on descriptions.
Design view. F6 = Switch panes. F1 = Help.
NUM
Microsoft Access [DTL : Table]
File Edit View Insert Tools Window Help
Field Name
Data Type
Description
SO_HP Text Status of message sent to home phone
SO_WP Text Status of message sent to work phone
SO_PGR Text Status of message sent to pager
SO_Fax Text Status of message sent to fax machine
SO_PPEM Text Status of message sent to palm pilot
SO_FD1 Text Status of message sent to future device
SO_FD2 Text Status of message sent to future device
SO_FD3 Text Status of message sent to future device
StartingVoiceSound Text Initial Voice or sound file
StandardMsg Text Standard (fixed) Text-to-speech message
TextMsg Text Message
VoiceMsg Text Voice Recorded Message
SoundMsg Text Sound part of the message
FormattedMsg Text Formatted message file such as MS WORD, HTML, etc formatted files
GraphicsMsg Text Graphics part of the message
VideoMsg Text Video part of the message
FuturaMsg1 Text Message for futuremessaging device 1
FuturaMsg2 Text Message for futuremessaging device 2
FuturaMsg3 Text Message for futuremessaging device 3
EndingVoiceSound Text Initial Vox file
SDZone Text Scheduled Destination Zone
SDDT Text Scheduled Destination Date and Time
Priority Number Priority
Command Text Command text
CommandHost Text Command to execute on this host
AutoEscalation Number Automatic Escalation. 0=No, 1=Yes, 2=Send to all messaging devices at once
AutoEscalationInterval Number Attempt escalation in these many seconds
AutoEscalationRetries Number Retry escalation these many times
Field Properties
General Lookup
The field description is optional. It helps you describe the field and is also displayed in the status bar when you select this field on a form. Press F1 for help on descriptions.
Design view. F6 = Switch panes. F1 = Help.
NUM

FIG. 2

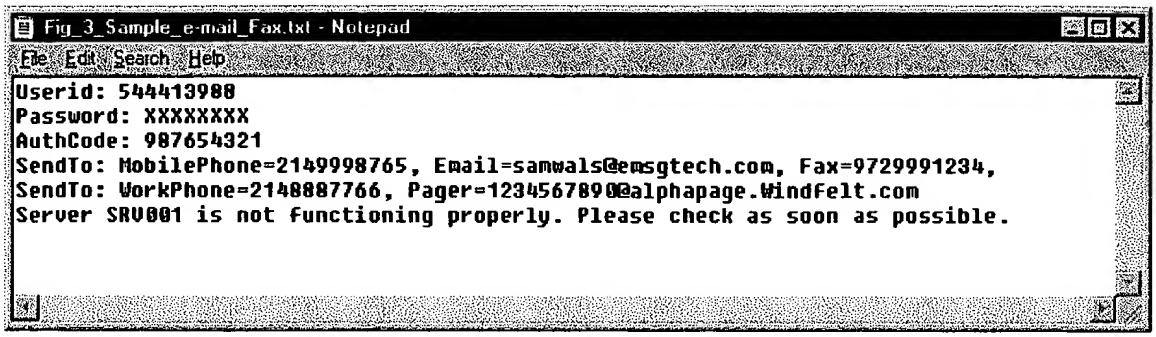


FIG. 3

EMS-2050-5614-0000

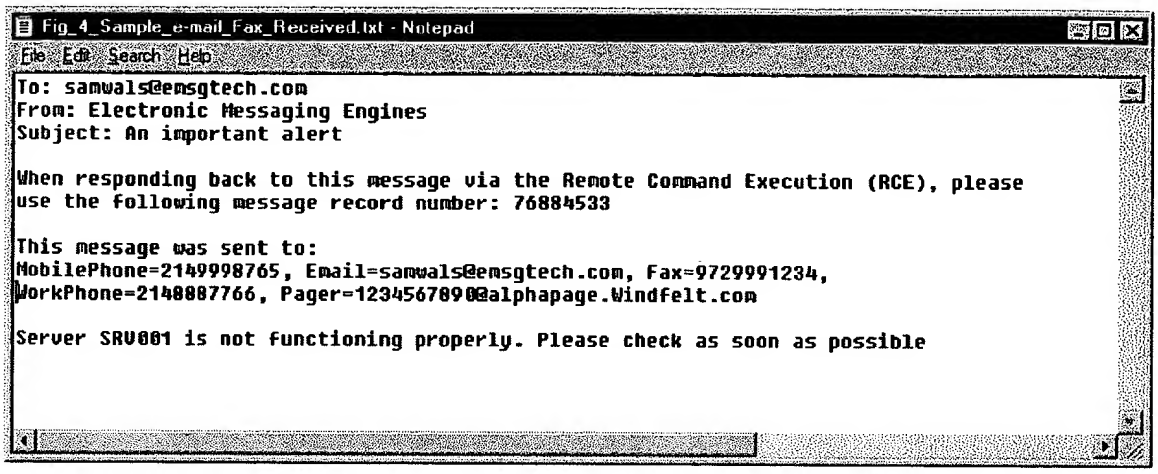


FIG. 4

1505.2003

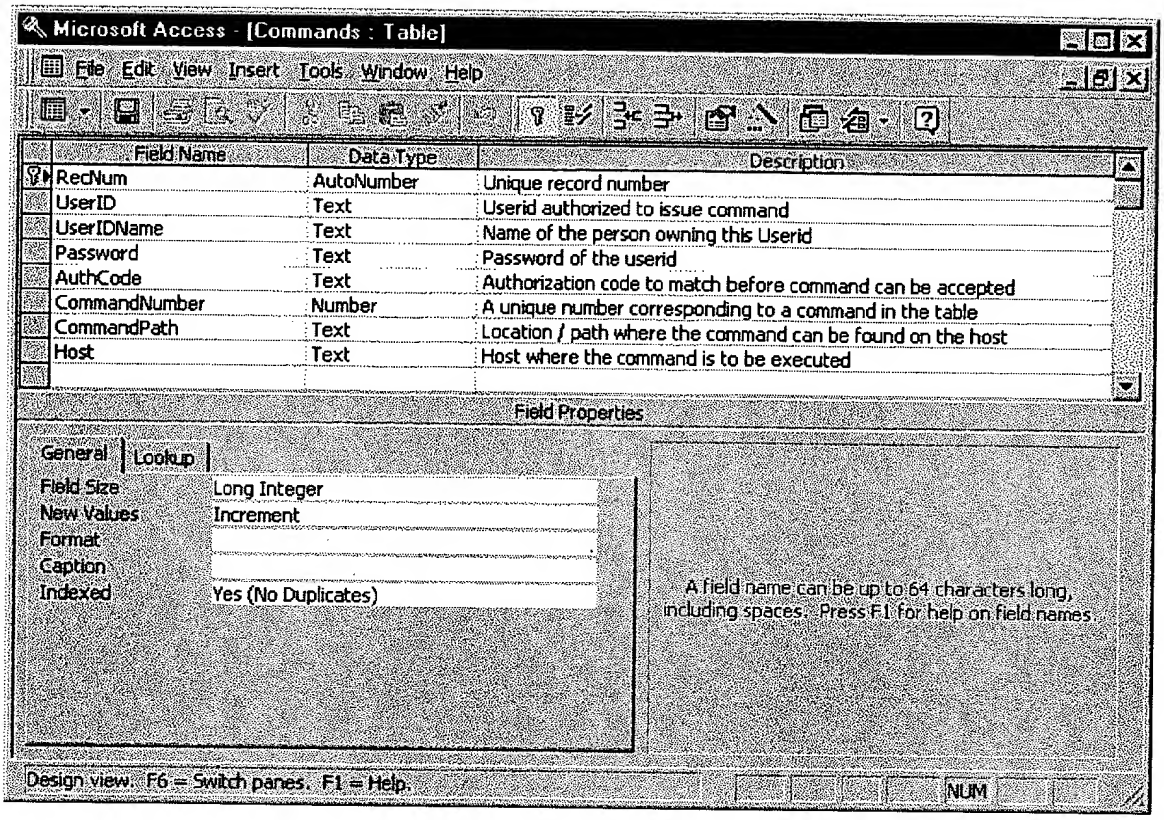
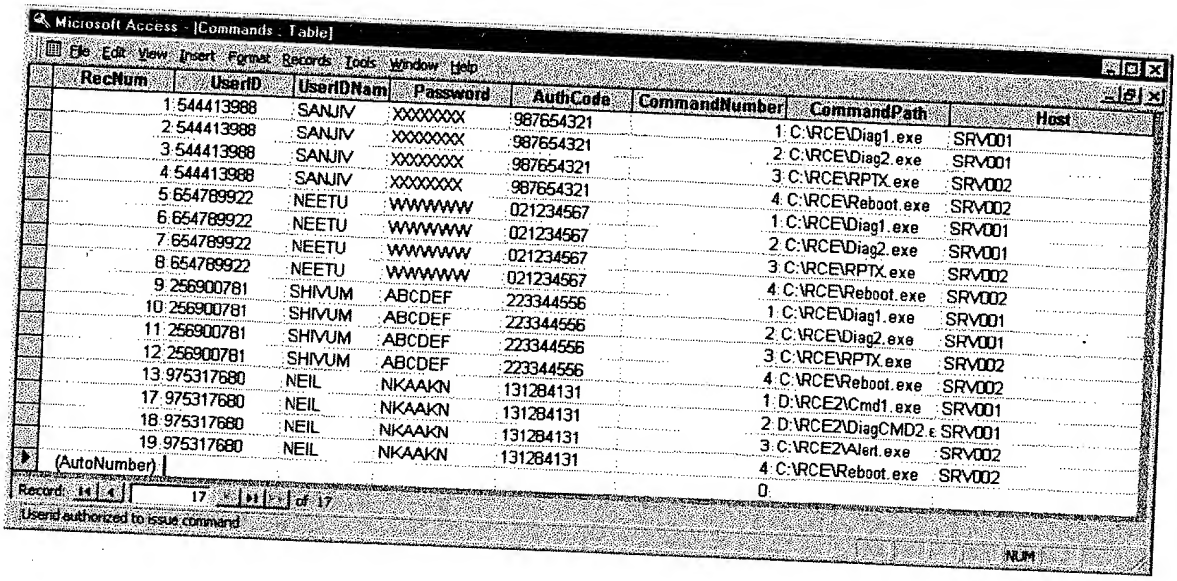

Microsoft Access - [Commands : Table]
File Edit View Insert Tools Window Help
Field Name
Data Type
Description
RecNum
AutoNumber
Unique record number
UserID
Text
Userid authorized to issue command
UserIDName
Text
Name of the person owning this Userid
Password
Text
Password of the userid
AuthCode
Text
Authorization code to match before command can be accepted
CommandNumber
Number
A unique number corresponding to a command in the table
CommandPath
Text
Location / path where the command can be found on the host
Host
Text
Host where the command is to be executed
Field Properties
General
Lookup
Field Size
Long Integer
New Values
Increment
Format
Caption
Indexed
Yes (No Duplicates)
A field name can be up to 64 characters long, including spaces. Press F1 for help on field names.
Design view. F6 = Switch panes. F1 = Help.
NUM

FIG. 5



RecNum	UserID	UserIDNam	Password	AuthCode	CommandNumber	CommandPath	Host
1	544413988	SANJIV	XXXXXXX	987654321	1	C:\RCE\Diag1.exe	SRV001
2	544413988	SANJIV	XXXXXXX	987654321	2	C:\RCE\Diag2.exe	SRV001
3	544413988	SANJIV	XXXXXXX	987654321	3	C:\RCE\RPTX.exe	SRV002
4	544413988	SANJIV	XXXXXXX	987654321	4	C:\RCE\Reboot.exe	SRV002
5	654789922	NEETU	WWWWW	021234567	1	C:\RCE\Diag1.exe	SRV001
6	654789922	NEETU	WWWWW	021234567	2	C:\RCE\Diag2.exe	SRV001
7	654789922	NEETU	WWWWW	021234567	3	C:\RCE\RPTX.exe	SRV002
8	654789922	NEETU	WWWWW	021234567	4	C:\RCE\Reboot.exe	SRV002
9	256900781	SHIVUM	ABCDEF	223344556	1	C:\RCE\Diag1.exe	SRV001
10	256900781	SHIVUM	ABCDEF	223344556	2	C:\RCE\Diag2.exe	SRV001
11	256900781	SHIVUM	ABCDEF	223344556	3	C:\RCE\RPTX.exe	SRV002
12	256900781	SHIVUM	ABCDEF	223344556	4	C:\RCE\Reboot.exe	SRV002
13	975317680	NEIL	NKAAKN	131284131	1	D:\RCE2\Cmd1.exe	SRV001
17	975317680	NEIL	NKAAKN	131284131	2	D:\RCE2\DiagCMD2.e	SRV001
18	975317680	NEIL	NKAAKN	131284131	3	C:\RCE2\Alert.exe	SRV002
19	975317680	NEIL	NKAAKN	131284131	4	C:\RCE\Reboot.exe	SRV002
(AutoNumber)					0		

FIG. 6

Page 20 of 56 - 1626

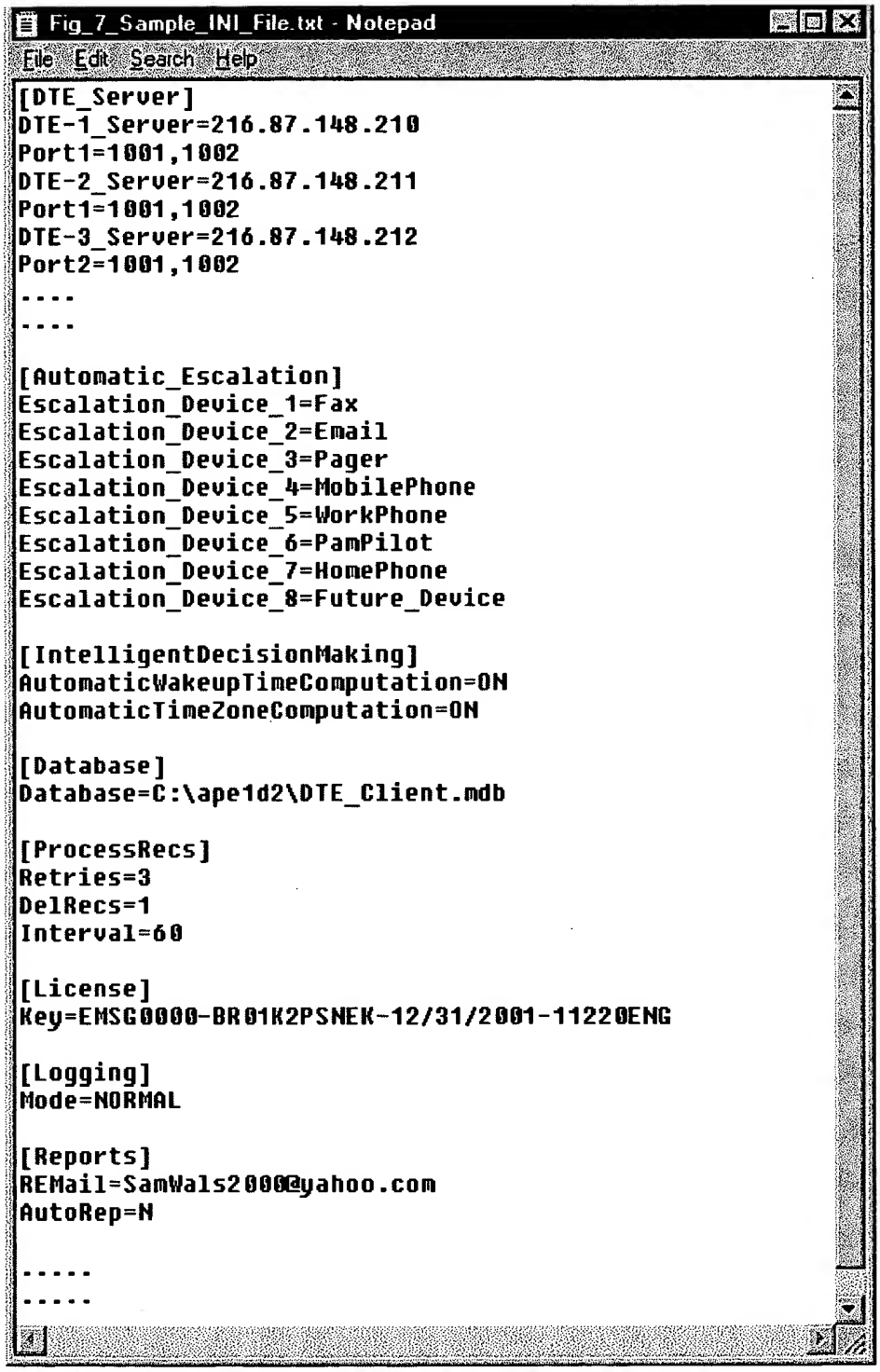


Fig_7_Sample_INI_File.txt - Notepad
File Edit Search Help
[DTE_Server]
DTE-1_Server=216.87.148.210
Port1=1001,1002
DTE-2_Server=216.87.148.211
Port1=1001,1002
DTE-3_Server=216.87.148.212
Port2=1001,1002
....
....
[Automatic_Escalation]
Escalation_Device_1=Fax
Escalation_Device_2=Email
Escalation_Device_3=Pager
Escalation_Device_4=MobilePhone
Escalation_Device_5=WorkPhone
Escalation_Device_6=PamPilot
Escalation_Device_7=HomePhone
Escalation_Device_8=Future_Device
[IntelligentDecisionMaking]
AutomaticWakeupTimeComputation=ON
AutomaticTimeZoneComputation=ON
[Database]
Database=C:\ape1d2\DTE_Client.mdb
[ProcessRecs]
Retries=3
DelRecs=1
Interval=60
[License]
Key=EMSG0000-BR01K2PSNEK-12/31/2001-11220ENG
[Logging]
Mode=NORMAL
[Reports]
REMail=SamWals2000@yahoo.com
AutoRep=N
.....
.....

FIG. 7

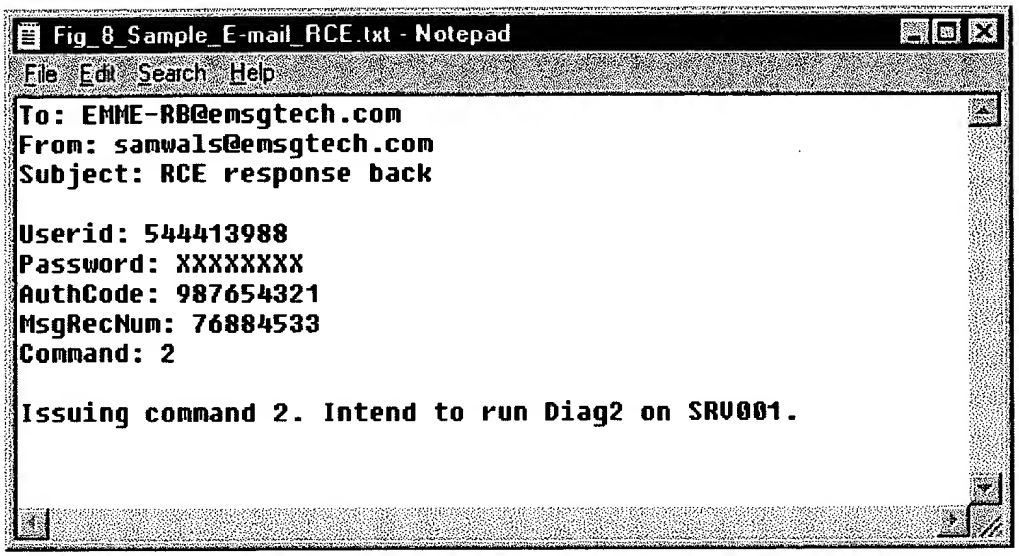


FIG. 8

Patent Application Publication Sep. 15, 2005 Sheet 8 of 8 US 2005/0204150 A1

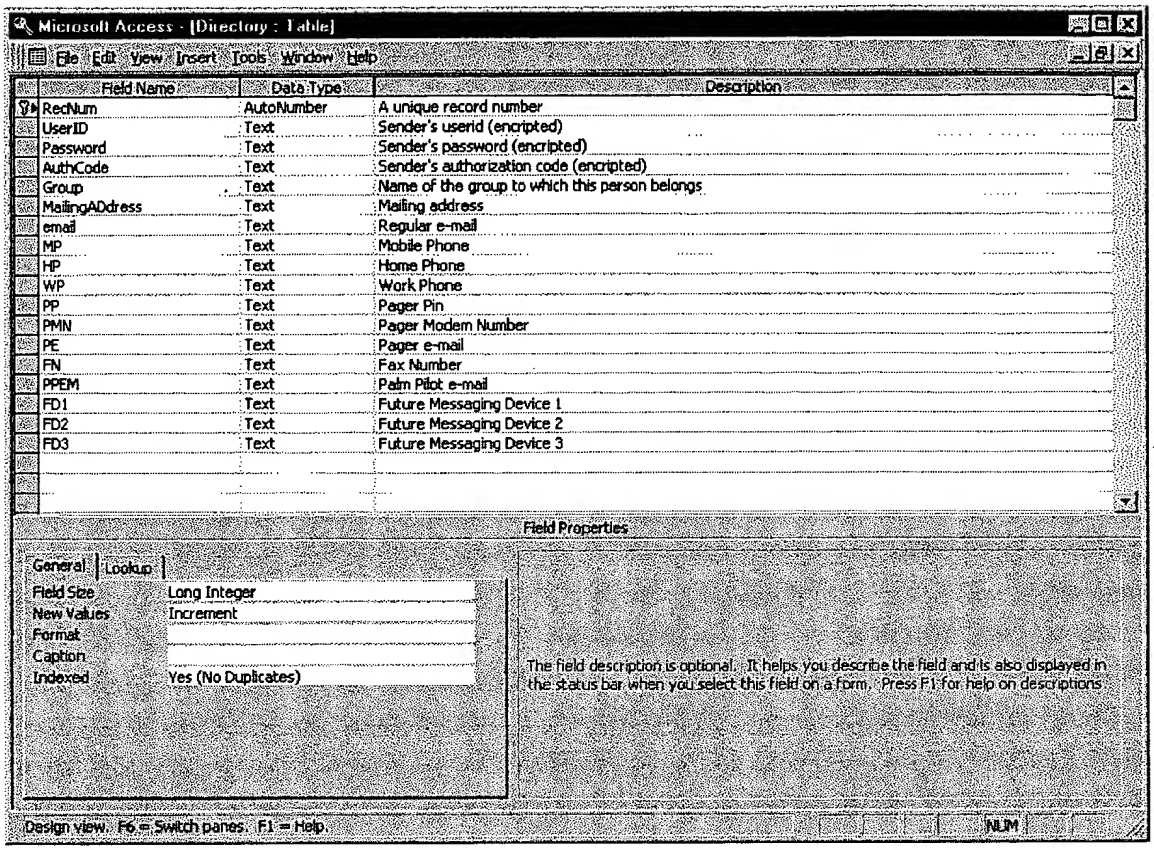
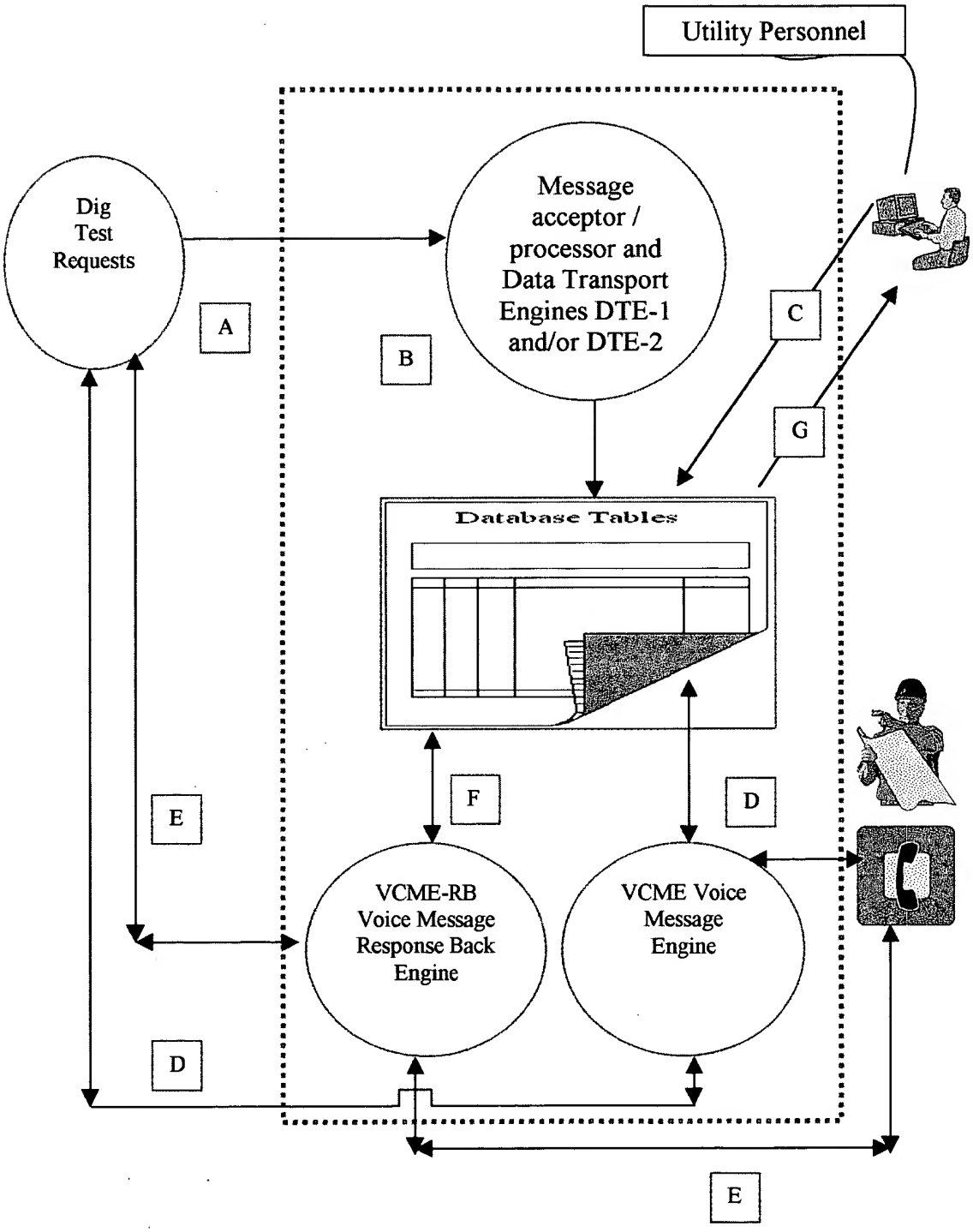


FIG. 9

Patent Application Publication

FIG. 10


Utility Personnel
Dig Test Requests
Message acceptor / processor and Data Transport Engines DTE-1 and/or DTE-2
A
B
C
G
Database Tables
F
D
E
VCME-RB Voice Message Response Back Engine
VCME Voice Message Engine
D
E